

Data Dictionary and Notes

Nez Perce Tribe and Shoshone-Bannock Tribes

Fish Consumption Survey, 2014-2015

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The document describes the dataset released as part of the Nez Perce Tribe and Shoshone-Bannock Tribes fish consumption survey draft final report (dated July 15th). The survey was conducted in Idaho during 2014 and 2015. The dataset includes basic demographic information of respondents, annual fish consumption rates based on a food frequency questionnaire (FFQ) and two 24-hour fish consumption recall interviews. Demographic information was restricted to protect identities of respondents. This includes grouping age and body weight. All respondents who were fish consumers and who completed the FFQ interview and had a calculable annual consumption rate are included in this data set. The data were analyzed and the results were presented in the draft final report. Not all variables used in that report are included in this dataset, but an extended dataset will be released with the final report. The draft final report or the final report will be needed in conjunction with the data dictionary and the dataset in order to properly understand and analyze the data.

The tribal members were randomly sampled according to a stratified sampling scheme described in the report. Each respondent has a survey weight which has been adjusted for non-response. Users must apply these survey weights to calculate unbiased estimates of population parameters such as mean consumption rates, consumption rate percentiles, etc. At the end of the data file are 1,000 bootstrap replicate weights, which were used to compute the confidence intervals in the report.

There are two versions of the survey weights provided. The first version (survey_wt1 and rep_wt1_XXX) was used for the FFQ rates and summaries of demographics presented in the report and should be used for any new analyses not represented in the report. Due to software versioning issues, a slightly modified version of these weights (survey_wt2 and rep_wt2_XXX) was used for the NCI method analysis presented in the report. These weights should only be used if the user is attempting to reproduce NCI method results in the report. The two versions of weights are very similar and will result in very similar estimates, but use of the first version is preferable (survey_wt1 and rep_wt1_XXX).

Table 3 describes all variables included in the released data set. Consumption rates are provided for the species groups 1 through 7 presented in the report (see Table 1 here) as well as for each of

the 45 individual species and groups listed in the questionnaire (Table 2)¹. When replying to question in the FFQ, respondents provided information on consumption at special events and gatherings, and, separately, consumption outside of special events and gatherings. For consumption at special events, respondents reported consumption of four species groups only: salmon and steelhead combined, resident trout, sturgeon, and suckers and whitefish combined. Some variables in the dataset include “EVENT” and “NONEVENT” in their names to indicate which variables refer to consumption at special events and which refer to consumption outside of special events.

For the July 15, 2015, draft final report, data from the two 24-hour recall interviews were analyzed using the NCI method to produce means and percentiles of fish consumption rates (g/day). Refer to the draft final report for the methodology used for the NCI method analysis. Note that the data from both the Shoshone-Bannock Tribes and the Nez Perce Tribe need to be combined in order to implement the NCI method as described in the report.

In order to prevent identification of individual survey respondents, the variable describing zip code group has not been included in this data release. The zip code group was included in the analysis based on the NCI method presented in the draft final report, but this zip code variable had only a small impact on the means and percentiles reported. The user of the datasets can carry out the NCI method analysis to derive means and percentiles of fish consumption, and those values will be quite similar to the corresponding values included in the draft final report.

All variables included in the datasets are from or have been derived from the answers to the survey questions except for a few demographic variables that are based on data from the enrollment files of each of the Tribes.

¹ The questionnaire appears in Appendix A of the draft final report.

Table 1. Definitions of main species groups presented in the draft final report.

Species Group	Description	Species and Groups Included
Group 1	All finfish and shellfish	Combination of Groups 3, 4, 5, 6 and 7
Group 2	Near coastal, estuarine, freshwater and anadromous	All species in Groups 3, 4 and 5 as well as lobster, crab, shrimp, marine clams or mussels, octopus* and scallops*
Group 3	Salmon or steelhead	Chinook, coho, sockeye, kokanee, steelhead, other salmon and any unspecified salmon species
Group 4	Resident trout	Rainbow, cutthroat, cutbow, bull, brook, lake, brown, other trout and any unspecified trout species.
Group 5	Other freshwater finfish or shellfish	Lamprey, sturgeon, whitefish, sucker, bass, bluegill, carp, catfish, crappie, sunfish, tilapia, walleye, yellow perch, crayfish, freshwater clams or mussels, other freshwater finfish and any unspecified freshwater species
Group 6	Marine finfish or shellfish	Cod, halibut, pollock, tuna, lobster, crab, marine clams or mussels, shrimp, other marine fish or shellfish
Group 7	Unspecified finfish or shellfish	Any response where the species was not specified sufficiently to be placed into Groups 3, 4, 5 or 6

Note: This list is a simplified version of Table 2 in the draft final report. The species lists are limited to the questionnaire species and groups (see Table 2 of this document) except where noted by an asterisk;

*A species which was “written in” in a text field of the questionnaire; these species were written in under the standard questionnaire category “Other marine fish or shellfish”.

Table 2. Individual species and groups listed on the survey questionnaire.

Salmon and Steelhead	Short Name Used in Data File
Chinook (King) Salmon	CHINOOK
Coho (Silver) Salmon	COHO
Sockeye (Red) Salmon	SOCKEYE
Kokanee (resident form of sockeye)	KOKANEE
Steelhead (migratory form of rainbow trout)	STEELHEAD
Other Salmon species (specify, e.g., Chum, Pink, Atlantic Salmon)	OTHER
All salmon and steelhead / species not specified	ALL_UNSPECIFIED
Resident Trout	
Rainbow Trout	RAINBOW
Cutthroat Trout	CUTTHROAT
Cutbow Trout (hybrid of Rainbow and Cutthroat Trout)	CUTBOW
Bull Trout (Dolly Varden)	BULL
Brook Trout	BROOK
Lake Trout	LAKE
Brown Trout	BROWN
Other trout (specify)	OTHER
All trout / species not specified	ALL_UNSPECIFIED
Other Freshwater Fish and Shellfish	
Sturgeon	STURGEON
Lamprey	LAMPREY
Whitefish	WHITEFISH
Sucker	SUCKER
Burbot	BURBOT
Northern Pikeminnow (previously Squawfish)	PIKEMINNOW
Bass	BASS
Bluegill	BLUEGILL
Carp	CARP
Catfish	CATFISH
Crappie	CRAPPIE
Sunfish	SUNFISH
Tilapia	TILAPIA
Walleye	WALLEYE
Yellow Perch	PERCH
Other freshwater finfish (specify)	OTHER_FINFISH
Crayfish	CRAYFISH
Freshwater Clams or Mussels	CLAMS
Unknown / unspecified freshwater fish	UNSPECIFIED
Seafood / Marine Fish and Shellfish	
Cod	COD
Halibut	HALIBUT
Pollock	POLLOCK
Tuna	TUNA
Lobster	LOBSTER
Crab	CRAB
Marine Clams or Mussels	CLAMS
Shrimp	SHRIMP
Other marine fish or shellfish (specify)	OTHER
Unspecified fish or shellfish species	UNSPECIFIED

Table 3. All variables included in the data file, including consumption rates (g/day) for individual species and species groups listed on the survey questionnaire.

Variable Name	Description
ID	5-character unique identifier of respondent
GENDER	Male or Female. Taken from the tribal enrollment file.
AGE	18-29, 30-39, 40-49, 50-60 or 60+. Taken from the tribal enrollment file.
FISHER	0 = not on fishers list; 1 = on fishers list. See the “Populations” section of the draft final report for a definition of ‘fisher.’
BODY_WT	Self-reported body weight in pounds (Q50 on questionnaire). Categorized as 100-150, 151-200, 201-250, 251+. The wide categories were chosen to protect the identities of the respondents. NA = respondent did not report weight.
SURVEY_WT1	Final survey weights (adjusted for non-response) used for FFQ and demographic summaries in the draft final report. Use these weights for all new analyses.
SURVEY_WT2	Survey weights (adjusted for non-response) used for NCI method summaries in the draft final report. These weights are intended for the user who wishes to reproduce the NCI method analysis presented in the draft final report.
SURVEY_STRATA	Strata used to draw the original sample. The strata are a cross between gender and age. Strata designations for the Nez Perce Tribe: F18-29, F30-39, F40-49, F50-59, F60+, M18-29, M30-39, M40-49, M50-59 or M60+. Strata designations for the Shoshone-Bannock Tribes: Off, On 18-29, On 30-39, On 40-49, On 50-59, On 60+ or On Fishers list.
FFQ_GROUPX_GPD	FFQ consumption rate (grams/day) for species group X (X = 1 - 7, see Table 1). This includes consumption both at or outside of special events and gatherings.
FFQ_EVENT_SALMON_STEELHEAD_GPD	FFQ consumption rate (grams/day) of salmon or steelhead at special events and gatherings only.
FFQ_EVENT_TROUT_GPD	FFQ consumption rate (grams/day) of resident trout at special events and gatherings only.

Variable Name	Description
FFQ_EVENT_STURGEON_GPD	FFQ consumption rate (grams/day) of sturgeon at special events and gatherings only.
FFQ_EVENT_SUCKERS_WHITEFISH_GPD	FFQ consumption rate (grams/day) of suckers and whitefish (combined) at special events and gatherings only.
FFQ_NONEVENT_SALMON_XXXX_GPD	FFQ consumption rate (grams/day) of salmon species XXXX outside of special events and gatherings (see Table 2 for species).
FFQ_NONEVENT_STEELHEAD_GPD	FFQ consumption rate (grams/day) of steelhead outside of special events and gatherings.
FFQ_NONEVENT_SALMON_OTHER_GPD	FFQ consumption rate (grams/day) of other salmon species not listed in Table 2, outside of special events and gatherings.
FFQ_NONEVENT_SALMON_ALL_UNSPECIFIED_GPD	FFQ consumption rate (grams/day) of either an unspecified salmon species or all salmon species combined, outside of special events and gatherings (see Table 2).
FFQ_NONEVENT_TROUT_XXXX_GPD	FFQ consumption rate (grams/day) of resident trout species XXXX outside of special events and gatherings (see Table 2 for species). For this and subsequent variables, the 'XXXX' placeholder is replaced in the data file headers by the name of a species.
FFQ_NONEVENT_TROUT_OTHER_GPD	FFQ consumption rate (grams/day) of other resident trout species not listed in Table 2, outside of special events and gatherings.
FFQ_NONEVENT_TROUT_ALL_UNSPECIFIED_GPD	FFQ consumption rate (grams/day) of either an unspecified resident trout species or all resident trout species combined, outside of special events and gatherings (see Table 2).
FFQ_NONEVENT_FRESH_XXXX_GPD	FFQ consumption rate (grams/day) of other freshwater species XXXX, besides salmon or trout, outside of special events and gatherings (see Table 2 for species).
FFQ_NONEVENT_FRESH_OTHER_GPD	FFQ consumption rate (grams/day) of other freshwater finfish species not listed in Table 2, outside of special events and gatherings.

Variable Name	Description
FFQ_NONEVENT_FRESH_UNSPECIFIED_GPD	FFQ consumption rate (grams/day) of either an unspecified freshwater species, not salmon or trout, outside of special events and gatherings (see Table 2).
FFQ_NONEVENT_MARINE_XXXX_GPD	FFQ consumption rate (grams/day) of marine species XXXX excluding special events and gatherings (see Table 2 for species).
FFQ_NONEVENT_MARINE_OTHER_GPD	FFQ consumption rate (grams/day) of other marine finfish or shellfish species not listed in Table 2, outside of special events and gatherings.
FFQ_NONEVENT_OTHER_UNSPECIFIED_GPD	FFQ consumption rate (grams/day) of unspecified species which could not be placed in any other group, outside of special events and gatherings (see Table 2).
RECALL1_CONSUMED_YESTERDAY	Did respondent consume fish the day before the first 24 hour recall; Yes or No.
RECALL1_WEEKEND_YESTERDAY	Was the day before the first 24 hour recall a weekend (Friday – Sunday)? 1 = Yes, 0 = No.
RECALL1_GROUPX_GRAMS	Grams consumed of group X (X = 1 - 7, see Table 1) on the first 24 hour recall. NA = respondent did not provide consumption information.
RECALL1_XXXX_GRAMS	Grams consumed of species XXXX on the first 24 hour recall, where X is one of the species listed under the FFQ_NONEVENT_XXXX_GPD variables. NA = respondent did not provide consumption information.
RECALL2_CONSUMED_YESTERDAY	Did respondent consume fish the day before the second 24 hour recall; Yes or No. NA = respondent did not complete a second 24 hour recall.
RECALL2_WEEKEND_YESTERDAY	Was the day before the second 24 hour recall a weekend (Friday – Sunday)? 1 = Yes, 0 = No. NA = respondent did not complete a second 24 hour recall.
RECALL2_GROUPX_GRAMS	Grams consumed of group X (X = 1 - 7, see Table 1) on the second 24 hour recall.

Variable Name	Description
RECALL2_XXXX_GRAMS	Grams consumed of species XXXX on the second 24 hour recall, where XXXX is one of the species listed under the FFQ_NONEVENT_XXXX_GPD variables. NA = respondent did not complete a second 24 hour recall.
REP_WT1_XXXX	Bootstrap replicate weights (XXXX = 1-1000) used to compute confident intervals for the FFQ consumption rates (see the “Confidence Intervals” section of the draft final report for details). Use these weights for all new analyses.
REP_WT2_XXXX	Bootstrap replicate weights (XXXX = 1-1000) used to compute confident intervals for the NCI method consumption rate (see the “Confidence Intervals” section of the draft final report for details). Only use these weights to reproduce the NCI method analysis presented in the draft final report.